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			*	**		0646-68 2 of 8	
					5 Septe	m ber 1968	
	MEMORAND	UM FOR THE	RECORD				-
25X1	SUBJECT:	Visit to Det S1010 PPA	tachment G, 2 Discussion	1-23 Augu	ıst 1968;		
	Detachment	undersigned r G for the purpo resent at this r	ose of discuss	ing the Sl	.010 suit	problems and	
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25X1	criteria for that the pilot pressure sui	was she followed the Sl010 suit. It is should use we will the U2C and Sl010 with the	The undersi yould be that b and the S1010 in	edestal gned state etween th	blishmen ed that th eir prese	t of basic ne only compa ent partial	The
:	from which v	pilots and the was established g the S1010 PF	d the following	points,			
	end of h	Fit: There s  ds. One pilot, is fingers, whi ed up to an incl lesires; it is in	ile another's f h. Careful at	had his g ingers an tention sh	glove tips d glove t ould be g	s hitting the ips were given to each	le
	USAF review	(s) completed.					
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Approved For Release 2006/11/06: CIA-RDP75B00159R000200080052-5

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IDEA 0646-68 Page 2

- b. <u>Visibility:</u> With the S1010 helmet, the fit again is the most critical area. It is understood that by moving the face forward, the visibility will increase; however, on a long-term basis, investigations should continue to improve the helmet's visibility restrictions that are now present.
- c. Mobility: This is again of major concern to the pilots. They recognize that when properly fitted, mobility should increase. However they still feel, and I agree, they need as little neck ring friction as can be safely allowed. They would, of course, like the 90l helmet at least) particularly as it is within eight ounces of the S1010 helmet weight. In any event, neck ring friction should be an item, like that of visibility, for continuing development.

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- 4. Even with a good fit, the pilots must have minimum criteria for visibility and mobility restrictions in the cockpit. These criteria are defined as follows:
  - a. With pilot's eyes centered drift sight, he should, by eye movement alone, see all of the forward instrument panel.
  - b. With ease of head and body movement (no hand assist to helmet), the pilot should be able to see all instruments and controls on the side panels back to the map case areas on the right and left sides of the cockpit. By straining, the pilot should be able then to see the current breakers, etc., behind that point.
  - c. Upward Visibility: The pilot should be able to see upwards and back to the edge of the black area of the canopy.
  - d. There is no absolute requirement for the pilot to see the front of his suit; however, if it could be made possible by adjustment, seeing of the pilot's personal connections would be in the "nice-to-have" category.
  - e. In a pressurized state, the pilot must have the visibility and mobility to be able to see and reach every instrument and control from the UHF on the left side panel of the cockpit, through the front instrument panel, to the drift sight control on the right side of the cockpit.

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SECRET 25X1

IDEA 0646-68 Page 3

- 5. In addition to the above mentioned comments, this meeting also involved discussions on cockpit changes. These changes, in conjunction with the proper fit of the S1010 suit, will make the flying of the U2R considerably safer and easier for the pilots.
  - a. Transpose the HSI and TDI instruments.
  - b. Move the oxygen gage to a position just behind the throttle for better visibility and control.
  - c. The nose pressurization shut-off control lever extended. The small pilots can not reach this valve in a pressurized state.
  - d. The cabin heat control should be moved to a position on the center panel, above the rudder well. The arm ring on the suit hits the throttle when pilots reach for the heat control in its present position.
  - e. If possible the leg retention bat wing of the seat should be trimmed down. This will allow for the arm ring to pass through this seat to wall area and therefore give the pilot more contortability in this area.
  - f. The TACAN should be moved forward of the ADF and ILS control heads and these two instruments moved back.
- 6. CONCLUSION: It is the opinion of the undersigned that there is no real problem with the S1010 suit. There were a myriad of minor problem areas (fit primarily) that were and are to be expected with the advent of new equipment into a flying organization. The major area of concern is that too many people became involved in the discussions, etc., on the pressure suit problems. This multiple involvement actually clouded the issues unnecessarily.

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Approved For Release 2006/11/06: CIA-RDP75B00159R000200080052-5 SECRET 25X1 IDEA 0646-68 Page 4 7. RECOMMENDATIONS: It is recommended that the criteria for qualifying the S1010 suit (Para 4 above) be the only criteria used. It is recommended that the cockpit changes (Para 5 above) be incorporated as indicated. It is recommended that one of the Detachment G mission pilots be appointed as the S1010 PPA Project Officer for the remainder of the suit's qualification period.

	Chief, Special Action Staff, OSA
	CONCURRENCE:
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25X1	Director, Special Activities (Date)
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Approved For Release 2006/11/06: CIA-RDP75B00159R000200080052-5

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IDEA 0646-68 Page 5

SAS/O/OSA

1 - D/SA

2 - DD/SA

3 - D/O/OSA

4 - LSD/R&D

5 - SAS/O/OSA

6 - D/M/OSA

7 - Compt/OSA

8 - RB/OSA

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